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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/779,039	02/08/2001	Gregory S. Friedrichs	AM100143	4428
25291	7590 08/26/2003			
WYETH			EXAMI	NER
PATENT LAW GROUP FIVE GIRALDA FARMS MADISON, NJ 07940			MURPHY, JOSEPH F	
MADISON, N	13 07940		ART UNIT	PAPER NUMBER
			1646 DATE MAILED: 08/26/2003	9

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application N .	Applicant(s)		
		09/779,039	FRIEDRICHS ET AL.		
	Office Action Summary	Examiner	Art Unit		
		Joseph F Murphy	1646		
D: -1.6	The MAILING DATE of this communication a		c rrespondence address		
THE NO - Exter after - If the - If NO - Failui - Any n	ORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION isions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a in period for reply is specified above, the maximum statutory perion re to reply within the set or extended period for reply will, by state eply received by the Office later than three months after the maid dipatent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply be to reply within the statutory minimum of thirty (30) do dwill apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	imely filed ays will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133)		
1)🛛	Responsive to communication(s) filed on 2	1 March 2003 .			
2a)⊠	This action is FINAL . 2b)	This action is non-final.			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims					
4)⊠	Claim(s) 1-17 is/are pending in the applicat	ion.			
•	4a) Of the above claim(s) <u>6,12 and 17</u> is/are	withdrawn from consideration.			
5)□	Claim(s) is/are allowed.				
6)⊠	Claim(s) <u>1-5,7-11 and 13-16</u> is/are rejected.				
7)	Claim(s) is/are objected to.				
	Claim(s) are subject to restriction and on Papers	d/or election requirement.			
	The specification is objected to by the Exami	ner.			
	The drawing(s) filed on is/are: a)☐ acc		aminer		
	Applicant may not request that any objection to	•	•		
11)[T	he proposed drawing correction filed on				
	If approved, corrected drawings are required in		•		
12)[] T	he oath or declaration is objected to by the I	Examiner.			
Priority u	nder 35 U.S.C. §§ 119 and 120		,		
13) 🗌 .	Acknowledgment is made of a claim for forei	ign priority under 35 U.S.C. § 119(a)-(d) or (f).		
_	☐ All b) ☐ Some * c) ☐ None of:				
	1. Certified copies of the priority docume	nts have been received.	•		
:	2. Certified copies of the priority docume	•	ion No.		
	 Copies of the certified copies of the pr application from the International E 	iority documents have been receiv Bureau (PCT Rule 17.2(a)).	ed in this National Stage		
	ee the attached detailed Office action for a li	·			
	cknowledgment is made of a claim for dome		-		
15)∏ A	The translation of the foreign language posterior to the cknowledgment is made of a claim for dome				
Attachment(
2) Notice 3) Inform	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	y (PTO-413) Paper No(s). <u>8</u> . Patent Application (PTO-152)		
S. Patent and Tra TO-326 (Rev		Action Summary	Part of Paper No. 9		

DETAILED ACTION

Formal Matters

Claims 1-17 are pending. Claims 6, 12, 17 stand withdrawn from consideration pursuant to 37 CFR 1.142(b). Claims 1-5, 7-11, 13-16 are under consideration.

Response to Arguments

Applicant's arguments filed in Paper No. 7, 3/21/2003 have been fully considered but they are persuasive in part.

The rejection of claims 1-5, 7, 9-11, 13-16 under 35 U.S.C. 102(b) as being anticipated by Deswal et al. (1999) has been withdrawn based on Applicants claim for priority to U.S. Provisional Application 60/240,935, as set forth on the corrected application datasheet.

New and remaining issues are set forth below

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1-5, 7, 9-11, 13-16 are rejected under 35 U.S.C. 102(a) as being anticipated by Deswal et al. (1999).

Deswal et al. teaches the selection of patients in need of therapy for an ischemic event in a mammal, and the administration of a TNF antagonist to treat said mammal. In this study Eighteen NYHA class III heart failure patients were randomized into a double-blind dose-escalation study to examine the safety and potential efficacy of etanercept, a specific TNF

antagonist (Enbrel) (Deswal at 3224). Of the patients enrolled in the study, 4 had ischemic heart disease (Ibid. at 3225, Table I), thus claims 1, 2 are anticipated. Etanercept contains 2 molecules of the extracellular domain of sTNFR2 linked to the Fc portion of the IgG1 molecule (Ibid. at 3225), thus claims 3-5 are anticipated. Myocardial infarction is an ischemic event, thus claims 13-16 are anticipated.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-5, 7-11, 13-16 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Deswal et al. (1999) in view of Ferrari et al. (1999), for reasons of record set forth in Paper No. 6, 10/21/2002.

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Deswal et al. teaches the selection of patients in need of therapy for an ischemic event in a mammal, and the administration of a TNF antagonist to treat said mammal. In this study Eighteen NYHA class III heart failure patients were randomized into a double-blind doseescalation study to examine the safety and potential efficacy of etanercept, a specific TNF antagonist (Enbrel) (Deswal at 3224). Of the patients enrolled in the study, 4 had ischemic heart disease (Ibid. at 3225, Table I). Etanercept contains 2 molecules of the extracellular domain of sTNFR2 linked to the Fc portion of the IgG1 molecule (Ibid. at 3225). Myocardial infarction is an ischemic event. Deswal et al. does not teach a method of inhibiting reperfusion injury in a mammal in need of treatment thereof with a TNF antagonist. Ferrari et al. teaches that there is increasing evidence that cytokines in general and tumour necrosis factor (TNF) in particular play an important role in cardiovascular disease. Increased levels of TNF have been implicated in the pathophysiology of ischemia-reperfusion injury, myocarditis, cardiac allograft and also in the progression of congestive heart failure (Ferrari at 99). Thus, it would have been obvious to one of skill in the art at the time the invention was made to practice a method of treating mammals in need of treatment for an ischemic event, myocardial infarction or reperfusion injury, with a TNF antagonist such as etanercept. The motivation is provided in Ferrari et al. who teaches that the extent of the increase in TNF levels is related to the severity of the syndrome, and that the cytokines contribute to the severity and progression of congestive heart failure (Ibid at 99), and that treatment with anticytokine therapy is safe (Ibid. at 102).

Applicant argues that the Ferrari reference is a general reference which states the hypothesis that TNF may be involved in the progression of congestive heart failure, and that anti-TNF strategies may be considered for therapeutic strategies, while Deswal was reporting the

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treatment of patients in the final stages of a chronic heart disease, and that the references do not teach the administration of a TNF-antagonist following an ischemic event as claimed. However, the Deswal reference teaches the administration of a TNF antagonist, etanercept to patients afflicted with an ischemic condition, see Deswal at 3225, Table I, which indicates that 15 the 18 total patients had ischemic heart disease. The Ferrai reference teaches that TNF has been shown to be increased in the myocardium after experimental ischemia and reperfusion, and that the extent of the increase is related to the severity of the syndrome. The skilled artisan would thus be motivated to practice a method of administration of etanercept, a TNF antagonist, to a mammal with a reperfusion injury because of the effectiveness in treating ischemic injury as shown in Deswal et al. with the teaching in Ferrari et al. that the extent of the increase in TNF levels is related to the severity of the syndrome, and that the cytokines contribute to the severity and progression of congestive heart failure, and that treatment with anticytokine therapy is safe. In addition, the combination of Ferrari and Deswal would give the skilled artisan a reasonable expectation of success, given that the Ferrari reference teaches that there is a role for TNF in congestive heart failure, and also teaches that anti-TNF strategies may be considered for therapeutic strategies, when combined with the teaching in Deswal that anti-TNF therapeutic strategies are efficacious in patients with heart failure as a result of an ischemic event. Thus, the combination of Ferrari and Deswal give a reasonable expectation of success because of the shown efficacy of the anti-TNF therapy when combined with the teaching of the role of TNF in congestive heart failure as a result of an ischemic event.

Conclusion

No claim is allowed.

Applicant's amendment, which perfected the priority claim, necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Advisory Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph F. Murphy whose telephone number is 703-305-7245. The examiner can normally be reached on M-F 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yvonne Eyler can be reached on 703-308-6564. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3014 for regular communications and 703-308-0294 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0196.

Joseph F. Murphy, Ph. D.

Patent Examiner Art Unit 1646

August 12, 2003